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IN THE CLAIMS:

Please amend claim 1 so that the claims hereafter read as follows:

1. (Currently Amended) A video-based surgical targeting system comprising:

a patient-specific database comprising a plurality of 2-D images of the anatomical structure of a patient;

a patient-specific 3-D computer model of said anatomical structure of said patient, said patient-specific 3-D computer model being assembled from said plurality of 2-D images contained in said patient-specific database;

graft placement ~~means~~ apparatus for (i) inserting at least one virtual grafts into said 2-D images contained in said patient-specific database, and/or (ii) ~~or~~ inserting at least one virtual grafts into said 3-D computer model;

an image generator for generating a virtual image of the anatomical structure modeled by said patient-specific 3-D computer model;

a real-time image generating ~~means~~ device for generating a real image of the anatomical structure of a patient;

a video mixing ~~means~~ device for selectively mixing said virtual image and said real image into an output image, whereby said output image ~~may~~ comprises either one of the two images exclusive of the other, or a composite of both images wherein the virtual image and the real image are simultaneously displayed in registration with one another; and

display means for displaying said output image.